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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,542	08/21/2003	Koichi Niihara	4041K-000148	9723
27572 7590 04/17/2007 HARNESS, DICKEY & PIERCE, P.L.C.				INER
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303 ART UNIT		, CAM N		
			ART UNIT	PAPER NUMBER
			1754	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MOI	NTHS	04/17/2007	PAF	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/646,542	NIIHARA ET AL.			
		Examiner	Art Unit			
		Cam N. Nguyen	1754			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exten after: - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period verse to reply within the set or extended period for reply will, by statute pely received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status						
2a)⊠ 3)□	Responsive to communication(s) filed on <u>01/22</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>21-39</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>21-39</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Application	on Papers					
10) 🖾 -	The specification is objected to by the Examine The drawing(s) filed on originally filed is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	accepted or b) ☐ objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment	r(s)		•	,		
2) Notice 3) Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Response to Amendment

1. Applicants' amendment and remarks, filed January 22, 2006, has been made of record and entered. Claims 1-20 have been canceled. Claims 21-23, 25-26, & 29 have been amended. Claims 21-39 are currently pending.

Claim Rejections - 35 USC § 102(e)

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 21-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Sung (PG Pub. No. US 2002/0131914 A1).

Sung discloses a catalyst composition comprising a mixture of: (a) ceria having a weighted numerical average particle size of not greater than about 100 um and (b) a catalytically effective amount of a platinum-group metal catalytic component disposed on a refractory metal oxide support, said catalyst composition containing substantially no organic compounds nor substantially any zirconia in the form of a composite or a solid solution with said ceria (see page 12, claim 1). The catalyst is disposed on a carrier (see page 12, claim 2). The carrier comprises cordierite (see page 13, claims 3 & 4). The ceria has a weighted numerical average particle size

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of about 1 to about 30 nm (see page 13, claims 5 & 6). See also page 13, claims 7-21 of the reference for details on the refractory metal oxide support materials, etc.

There is no patentable distinction seen between the claimed catalyst and that disclosed by Sung. Thus, the claims are anticipated by the teaching of the reference.

Response to Applicants' Arguments

4. Applicants' amendment and response filed on January 22, 2006 has been fully considered, but not deemed persuasive in view of the new ground of rejection(s) and/or objection(s) above.

The newly applied reference to Sung clearly teaches a catalyst composition having average particle size of less than 100 nm, thus meets the claimed limitation as required in the instant claim 21.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Citations

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form attached.

Conclusion

7. Claims 21-39 are pending. Claims 21-39 are rejected. No claims are allowed.

Contacts

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is 571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at alternative work site.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cam N. Nguyen/

Nguyen/cnn

Primary Examiner

April 13, 2007

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